

SVENSK STANDARD

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Reciprocating internal combustion engine driven alternating current generating sets – Part 13: Safety (ISO 8528-13:2016)

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Europastandarden EN ISO 8528-13:2016 gäller som svensk standard. Detta dokument innehåller den officiella engelska versionen av EN ISO 8528-13:2016.

Denna standard ersätter SS-EN 12601:2010, utgåva 2.

The European Standard EN ISO 8528-13:2016 has the status of a Swedish Standard. This document contains the official English version of EN ISO 8528-13:2016.

This standard supersedes the Swedish Standard SS-EN 12601:2010, edition 2.

**Förhållandet till övriga delar under samma huvudtitel - Utdrag ur Förord i ISO 8528-13:2016/
Relations to other parts under the same general title - Extract from the Foreword of ISO 8528-13:2016**

ISO 8528 consists of the following parts, under the general title *Reciprocating internal combustion engine driven alternating current generating sets*:

- Part 1: Application, ratings and performance
- Part 2: Engines
- Part 3: Alternating current generators for generating sets
- Part 4: Controlgear and switchgear
- Part 5: Generating sets
- Part 6: Test methods
- Part 7: Technical declarations for specification and design
- Part 8: Requirements and tests for low-power generating sets
- Part 9: Measurement and evaluation of mechanical vibrations
- Part 10: Measurement of airborne noise by the enveloping surface method
- Part 12: Emergency power supply to safety services
- Part 13: Safety

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Har du synpunkter på innehållet i den här standarden, vill du delta i ett kommande revideringsarbete eller vara med och ta fram andra standarder inom området? Gå in på www.sis.se - där hittar du mer information.

EUROPEAN STANDARD

EN ISO 8528-13

NORME EUROPÉENNE

EUROPÄISCHE NORM

June 2016

ICS 27.020; 29.160.40

Supersedes EN 12601:2010

English Version

**Reciprocating internal combustion engine driven
alternating current generating sets - Part 13: Safety (ISO
8528-13:2016)**

Groupes électrogènes à courant alternatif entraînés par
moteurs alternatifs à combustion interne - Partie 13:
Sécurité (ISO 8528-13:2016)

Stromerzeugungsaggregate mit Hubkolben-
Verbrennungsmotor - Teil 13: Sicherheit (ISO 8528-
13:2016)

This European Standard was approved by CEN on 23 January 2016.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

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European foreword

This document (EN ISO 8528-13:2016) has been prepared by Technical Committee ISO/TC 70 “Internal combustion engines” in collaboration with Technical Committee CEN/TC 270 “Internal combustion engines” the secretariat of which is held by DIN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by December 2016, and conflicting national standards shall be withdrawn at the latest by June 2017.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 12601:2010.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s).

For relationship with EU Directive(s), see informative Annex ZA, which is an integral part of this document.

According to the CEN-CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

Endorsement notice

The text of ISO 8528-13:2016 has been approved by CEN as EN ISO 8528-13:2016 without any modification.

Reciprocating internal combustion engine driven alternating current generating sets —

Part 13: Safety

1 Scope

This part of ISO 8528 specifies the safety requirements for reciprocating internal combustion (RIC) engine driven generating sets up to 1 000 V consisting of an RIC engine, an alternating current (AC) generator including the additional equipment required for operating, e.g. controlgear, switchgear, auxiliary equipment.

It is applicable to generating sets for land and marine use (domestic, recreational and industrial application). It is not applicable to generating sets used on board of seagoing vessels and mobile offshore units as well as on aircraft or to propel road vehicles and locomotives.

NOTE This part of ISO 8528 does not apply to arc welding equipment (IEC 60974 series).

The special requirements needed to cover operation in potentially explosive atmospheres are not covered in this part of ISO 8528.

The hazards relevant to RIC engine driven generating sets are identified in [Annex A](#).

This part of ISO 8528 deals with the special requirements of test and safety design which should be observed in addition to the definitions and requirements in ISO 8528-1, ISO 8528-2, ISO 8528-3, ISO 8528-4, ISO 8528-5 and ISO 8528-6, where applicable. It specifies safety requirements in order to protect the user from danger.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 2261, *Reciprocating internal combustion engines — Hand-operated control devices — Standard direction of motion*

ISO 2710-1, *Reciprocating internal combustion engines — Vocabulary — Part 1: Terms for engine design and operation*

ISO 2710-2, *Reciprocating internal combustion engines — Vocabulary — Part 2: Terms for engine maintenance*

ISO 3046-1, *Reciprocating internal combustion engines — Performance — Part 1: Declarations of power, fuel and lubricating oil consumptions, and test methods — Additional requirements for engines for general use*

ISO 3046-6, *Reciprocating internal combustion engines — Performance — Part 6: Overspeed protection*

ISO 4871, *Acoustics — Declaration and verification of noise emission values of machinery and equipment*

ISO 6826:1997, *Reciprocating internal combustion engines — Fire protection*

ISO 7967-1, *Reciprocating internal combustion engines — Vocabulary of components and systems — Part 1: Structure and external covers*